

LOW PRESSURE STEAM TURBINE EXHAUST HOOD

ABSTRACT OF THE DISCLOSURE

An exhaust hood for a turbine includes a shell casing, an external support structure, conical corner plates, and a butterfly plate. The shell casing includes an inner surface and an outer surface. The external support structure is coupled to the shell casing outer surface, and provides structural support to said shell casing. The butterfly plate is coupled to the shell casing inner surface for channeling flow into the exhaust hood and subsequently into the condenser. The butterfly plate has a substantially elliptically-shaped cross-sectional profile that facilitates reducing flow separation losses of steam flowing therethrough into the exhaust hood.